

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)



Applicant's or agent's file reference 1923wo-ag	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA/416)	
International application No. PCT/FI2004/000582	International filing date (<i>day/month/year</i>) 05.10.2004	Priority date (<i>day/month/year</i>) 30.10.2003
International Patent Classification (IPC) or both national classification and IPC INV. E05B47/06		
Applicant ABLOY OY et al.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

 These annexes consist of a total of 2 sheets.

3. This report contains indications relating to the following items:
 - I ☒ Basis of the opinion
 - II ☐ Priority
 - III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
 - IV ☐ Lack of unity of invention
 - V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 - VI ☐ Certain documents cited
 - VII ☐ Certain defects in the international application
 - VIII ☐ Certain observations on the international application

Date of submission of the demand 29.08.2005	Date of completion of this report 30.03.2006
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/FI2004/000582

I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

Description, Pages

1-8 as originally filed

Claims, Numbers

1-6 filed with telefax on 29.08.2005

Drawings, Sheets

1/9-9/9 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:
- ☐ the drawings, sheets:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. **PCT/FI2004/000582**

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	1-6
	No: Claims	
Inventive step (IS)	Yes: Claims	1-6
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-6
	No: Claims	

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The nearest prior art seem to be EP-A-0 537 531 which discloses a door lock with a controllable handle operation, according to the preamble of independent claim 1.

Object of the invention is to present a door lock, which offers a wide range of possibilities for installing and utilising the door lock, so that the lock can always be used from one side of the door and the use from the other side is selectively controlled.

Solution: by means of the features of the characterizing part of claim 1 (a selecting member being moveable from the one lock side to the other, which member retains a torsion unit selected in each case to be unturnable with respect to the follower and wherein the coupling members are under the control of a solenoid arrangement), neither disclosed in the available prior art nor obvious per se.

The subject-matter of claim 1 seems to satisfy the criterion set forth in Article 33(2), (3) and (4) PCT.

Claims 2 to 6 relate to modifications of the invention of claim 1.

The subject-matter of these claims seems to satisfy the criterion set forth in Rule 6.4 PCT.

CLAIMS

1. A door lock with controllable handle operation including a bolt (3), a fol-
5 lower (5) for moving the bolt and an operation axis (4), on both ends of
which an actuator can be installed for operating the follower (5), whereby
force transmission from either side of the lock to the follower (5) is estab-
lished by means of movable coupling members (10a, 10b), which are con-
trolled by a solenoid arrangement (8, 9) or the like, and in which the follower
10 (5) is provided with two separate torsion units (6a, 6b) installed on the op-
eration axis (4) on different sides of the follower (5) and turnably secured
thereto, which units can be connected to force transmission with the fol-
lower (5) by utilising said coupling members (10a, 10b), characterised in that
it comprises a selecting member (7), being a screw or the like movable in the
15 direction of the operation axis (4), the selecting member (7) being movable
from one lock side to the other, which member retains the torsion unit (6a,
6b) selected in each case to be unturnable with respect to the follower (5),
that is provided with a threaded opening (12) for the selecting member (7),
so that force transmission from the operation axis (4) to the follower (5) is
20 connected on that particular side of the lock, and that on the other side of
the lock, force transmission from the operation axis (4) to the follower (5)
can be selectively either connected or disconnected by means of said cou-
pling members (10a, 10b) under the control of the solenoid arrangement (8,
9).
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2. A door lock according to claim 1, characterised in that the torsion units
(6a, 6b) are provided with a recess (13a, 13b) or the like, which are shaped
so as to receive at least a part of the selecting member (7).
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3. A door lock according to claim 2, characterised in that the selecting mem-
ber (7) is provided with an extended head (7a), which cooperates with said

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recess (13a, 13b) or the like, when the selecting member (7) is installed thereto.

4. A door lock according to claim 2 or 3, characterised in that the follower (5) is provided with a guiding member (14a, 14b) extending to said recess (13a, 13b) or the like of the torsion unit (6a, 6b) in the direction of the mid-axis of the opening (12) in the follower (5) and being in cooperation with the selecting member (7).
- 10 5. A door lock according to claim 4, characterised in that said guiding member (14a, 14b) is further provided with a guiding surface (14a1, 14b1), which is arranged to cooperate with a protrusion (15a, 15b) at the torsion unit, while the follower (5) is being turned.
- 15 6. A door lock according to claim 1, characterised in that said opening (12) of the follower (5) is arranged in a protrusion (17), and that each of the torsion units (6a, 6b) is provided with a corresponding protrusion (18a, 18b), respectively, in which an opening (19a, 19b) is arranged for the selecting member (7), whereby the openings (19a, 19b) can be arranged concentrically
- 20 with respect to the opening (12) of the follower for installing the selecting member (7).

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